

ABSTRACT

The present invention relates to acryl-silicone hybrid impact modifiers, the method of their manufacture, and vinyl chloride resin compositions containing the above. The acryl-silicone hybrid impact modifier of the present invention is comprised of a) 0.01 to 10 parts by weight of a seed obtained through emulsion copolymerization of vinyl monomers and hydrophilic monomers; b) 60 to 94 parts by weight of an acryl-silicone hybrid rubber core covering the seed in which a polyorganosiloxane rubber phase is dispersed locally onto the inner part and surface of the acrylic rubber core containing alkyl acrylate polymers of which alkyl group has 1 to 8 carbon atoms; and c) 6 to 40 parts by weight of a shell covering the above rubber core and containing alkyl methacrylate polymers of which alkyl group has 1 to 4 carbon atoms. Thermoplastic resins containing the above, particularly by being added to vinyl chloride resins, they have effects of granting superior impact resistance, weatherability, and high gloss.